L Number	Hits	Search Text	DB	Time stamp
2	0	weather and personal and penomenological and system	USPAT; US-PGPUB	2002/06/10 17:54
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4	0	weather and penomenological and system	USPAT; US-PGPUB; DERWENT	2002/06/10 17:55
1	85	weather and (data$4) and multimedia and grid$4	USPAT; US-PGPUB	2002/06/10 17:55

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17	☒	☐	US 6380959 B1	20020430	17
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19	☒	☐	US 6339707 B1	20020115	11
20	☒	☐	US 6336030 B1	20020101	15
21	☒	☐	US 6330497 B1	20011211	30
22	☒	☐	US 6323980 B1	20011127	26
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25	☒	☒	US 6307573 B1	20011023	41
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27	☒	☐	US 6278456 B1	20010821	15
28	☒	☐	US 6233506 B1	20010515	29

	Title	Current OR	Current XRef
17	Web calendar architecture and uses thereof	345/853	345/808
18	Generation and distribution of personalized multimedia natural-phenomenological information	702/2	455/414
19	Method and system for providing wideband communications to mobile users in a satellite-based network	455/427	455/12.1; 455/13.3; 455/429
20	Method and system for providing satellite coverage using fixed spot beams and scanned spot beams	455/13.2	455/12.1; 455/13.3; 455/427
21	Multimedia technique for operating devices in a vehicle	701/1	345/7; 701/29
22	Hybrid picocell communication system	359/159	359/154; 359/155; 359/172
23	Integrated routing/mapping information	701/201	340/995; 342/357.09; 701/209; 701/211
24	Hybrid universal broadband telecommunications using small radio cells interconnected by free-space optical links	379/56.2	359/109; 359/152; 455/449
25	Graphic-information flow method and system for visually analyzing patterns and relationships	345/764	345/440; 345/803; 345/804; 345/854; 705/26; 707/512
26	Technique for effectively providing audio information in a vehicle	701/1	340/988; 340/990; 701/200; 701/211; 701/36
27	Web calendar architecture and uses thereof		345/963
28	Technique for effectively locating an object	701/1	307/10.2; 340/426; 342/357.07; 342/357.09; 455/404; 701/207

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
17		Wang, Shou-Chung et al.	☐	☐	☐	☐	☐	☐	☐
18		Burfeind, Craig et al.	☐	☐	☐	☐	☐	☐	☐
19		Wainfan, S. Lynne et al.	☐	☐	☐	☐	☐	☐	☐
20		Houston, Sam W. et al.	☐	☐	☐	☐	☐	☐	☐
21		Obradovich, Michael L. et al.	☐	☐	☐	☐	☐	☐	☐
22		Bloom, Scott H.	☐	☐	☐	☐	☐	☐	☐
23		DeLorme, David M. et al.	☐	☐	☐	☐	☐	☐	☐
24		Acampora, Anthony	☐	☐	☐	☐	☐	☐	☐
25		Barros, Barbara L.	☐	☐	☐	☐	☐	☐	☐
26		Obradovich, Michael L.	☐	☐	☐	☐	☐	☐	☐
27		Wang, Shou-Chung et al.	☐	☐	☐	☐	☐	☐	☐
28		Obradovich, Michael L. et al.	☐	☐	☐	☐	☐	☐	☐

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31	☒	☐	US 6199082 B1	20010306	58
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33	☒	☐	US 6169954 B1	20010102	32
34	☒	☐	US 6157935 A	20001205	
35	☒	☐	US 6144954 A	20001107	
36	☒	☐	US 6144402 A	20001107	
37	☒	☐	US 6141034 A	20001031	
38	☒	☐	US 6133909 A	20001017	
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40	☒	☐	US 6105060 A	20000815	18
41	☒	☐	US 6078946 A	20000620	

	Title	Current OR	Current XRef
29	Data processing system and method	382/154	348/47; 382/106; 382/107; 382/278; 382/303; 382/304
30	Data management system	707/3	707/104.1
31	Method for delivering separate design and content in a multimedia publishing system	707/522	707/515
32	System and method for adjusting climate control in vehicles	701/1	165/11.1; 165/203; 165/205; 165/208; 165/211; 236/49.3; 237/2A; 454/75; 701/36
33	Intelligent public transit system using dual-mode vehicles	701/117	701/23
34	Remote data access and management system	707/503	382/187
35	Automatic development of computer software	706/62	706/46; 706/61
36	Internet transaction acceleration	725/109	348/552; 380/212; 380/242
37	Immersive imaging method and apparatus	348/36	348/48
38	Method and apparatus for searching a guide using program characteristics	345/721	348/906; 725/45; 725/46
39	Method and system for adjusting settings of vehicle functions	701/49	307/10.1; 340/461; 701/1; 701/36
40	System for providing global portable internet access using low earth orbit satellite and satellite direct radio broadcast system	709/219	725/63
41	System and method for management of connection oriented networks	709/200	709/238; 709/241

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
29		Woodfill, John Iselin et al.	☐	☐	☐	☐	☐	☐	☐
30		Tran, Bao Q.	☐	☐	☐	☐	☐	☐	☐
31		Ferrel, Patrick J. et al.	☐	☐	☐	☐	☐	☐	☐
32		Obradovich, Michael L. et al.	☐	☐	☐	☐	☐	☐	☐
33		McCrary, Homer T.	☐	☐	☐	☐	☐	☐	☐
34		Tran, Bao Q. et al.	☐	☐	☐	☐	☐	☐	☐
35		Li, Chou H.	☐	☐	☐	☐	☐	☐	☐
36		Norsworthy, John P. et al.	☐	☐	☐	☐	☐	☐	☐
37		McCutchen, David	☐	☐	☐	☐	☐	☐	☐
38		Schein, Steven Michael et al.	☐	☐	☐	☐	☐	☐	☐
39		Obradovich, Michael L. et al.	☐	☐	☐	☐	☐	☐	☐
40		Rothblatt, Martine A.	☐	☐	☐	☐	☐	☐	☐
41		Johnson, William A.	☐	☐	☐	☐	☐	☐	☐

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51	☒	☐	US 5963745 A	19991005	
52	☒	☐	US 5950543 A	19990914	40
53	☒	☐	US 5948040 A	19990907	
54	☒	☐	US 5907704 A	19990525	
55	☒	☐	US 5880864 A	19990309	

	Title	Current OR	Current XRef
42	Hybrid universal broadband telecommunications using small radio cells interconnected by free-space optical links	379/56.2	359/109; 359/152
43	Method and system for providing wideband communications to mobile users in a satellite-based network	455/427	455/12.1; 455/13.3
44	Motion estimation and compensation of video object planes for interlaced digital video	382/236	348/578
45	Web calendar architecture and uses thereof	345/733	345/749; 345/751; 345/963
46	Electronic television program guide schedule system and method with data feed access	348/731	348/564; 348/569; 348/906
47	Multimedia information and control system for automobiles	701/1	340/815.4; 345/7; 701/29
48	Motion estimation and compensation of video object planes for interlaced digital video	382/236	
49	Computer program apparatus for determining behavioral profile of a computer user	705/10	705/1
50	Fully distributed processing memory element	712/20	709/238; 712/14
51	APAP I/O programmable router	712/13	712/10; 712/12; 712/14
52	Evacuated tube transport	104/138.1	104/130.05; 104/27; 104/28
53	Travel reservation information and planning system	701/201	340/990; 701/208; 701/211; 705/5
54	Hierarchical encapsulation of instantiated objects in a multimedia authoring system including internet accessible objects	717/100	717/123
55	Advanced optical fiber communications network	359/124	359/118; 359/125; 359/167

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
42		Acampora, Anthony	☐	☐	☐	☐	☐	☐	☐
43		Wainfan, S. Lynne et al.	☐	☐	☐	☐	☐	☐	☐
44		Eifrig, Robert O. et al.	☐	☐	☐	☐	☐	☐	☐
45		Wang, Shou-Chung et al.	☐	☐	☐	☐	☐	☐	☐
46		Knee, Robert Alan et al.	☐	☐	☐	☐	☐	☐	☐
47		Obradovich, Michael L. et al.	☐	☐	☐	☐	☐	☐	☐
48		Eifrig, Robert O. et al.	☐	☐	☐	☐	☐	☐	☐
49		Gerace, Thomas A.	☐	☐	☐	☐	☐	☐	☐
50		Barker, Thomas Norman et al.	☐	☐	☐	☐	☐	☐	☐
51		Collins, Clive Allan et al.	☐	☐	☐	☐	☐	☐	☐
52		Oster, Daryl	☐	☐	☐	☐	☐	☐	☐
53		DeLorme, David M. et al.	☐	☐	☐	☐	☐	☐	☐
54		Gudmundson, Norman K. et al.	☐	☐	☐	☐	☐	☐	☐
55		Williams, Larry et al.	☐	☐	☐	☐	☐	☐	☐

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56	☒	☐	US 5875108 A	19990223	110
57	☒	☐	US 5864415 A	19990126	
58	☒	☐	US 5860073 A	19990112	
59	☒	☐	US 5850218 A	19981215	
60	☒	☐	US 5848396 A	19981208	31
61	☒	☐	US 5848373 A	19981208	
62	☐	☐	US 5842031 A	19981124	67
63	☐	☐	US 5808767 A	19980915	21
64	☐	☐	US 5802492 A	19980901	63
65	☐	☐	US 5796945 A	19980818	14
66	☐	☐	US 5794059 A	19980811	68

	Title	Current OR	Current XRef
56	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	700/17	382/181; 382/190; 700/83
57	Fiber optic network with wavelength-division-multiplexed transmission to customer premises	359/125	359/173; 370/907
58	Style sheets for publishing system	707/522	707/513; 707/516; 707/526
59	Inter-active program guide with default selection control	725/45	348/906; 725/102; 725/33; 725/41; 725/43; 725/53; 725/61; 725/8
60	Method and apparatus for determining behavioral profile of a computer user	705/10	705/1; 725/14; 725/46
61	Computer aided map location system	701/200	340/990; 340/995; 342/357.13; 701/208; 701/212
62	Advanced parallel array processor (APAP)	712/23	
63	Fiber optic network with wavelength-division-multiplexed transmission to customer premises	359/152	359/125; 359/167
64	Computer aided routing and positioning system	455/456	340/990; 340/995; 701/201; 701/208; 701/211; 701/213
65	Idle time multimedia viewer method and apparatus for collecting and displaying information according to user defined indicia	709/219	345/716
66	N-dimensional modified hypercube	712/10	712/1; 712/11; 712/12; 712/13; 712/15

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
56		Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐
57		Williams, Larry et al.	☐	☐	☐	☐	☐	☐	☐
58		Ferrel, Patrick J. et al.	☐	☐	☐	☐	☐	☐	☐
59		LaJoie, Mike L. et al.	☐	☐	☐	☐	☐	☐	☐
60		Gerace, Thomas A.	☐	☐	☐	☐	☐	☐	☐
61		DeLorme, David M. et al.	☐	☐	☐	☐	☐	☐	☐
62		Barker, Thomas Norman et al.	☒	☐	☐	☐	☐	☐	☐
63		Williams, Larry et al.	☒	☐	☐	☐	☐	☐	☐
64		DeLorme, David M. et al.	☒	☐	☐	☐	☐	☐	☐
65		Tarabella, Robert M.	☒	☐	☐	☐	☐	☐	☐
66		Barker, Thomas Norman et al.	☒	☐	☐	☐	☐	☐	☐

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62	US 5842031	☐
63	US 5808767	☐
64	US 5802492	☐
65	US 5796945	☐
66	US 5794059	☐

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67	☐	☐	US 5774357 A	19980630	97
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69	☐	☐	US 5734921 A	19980331	68
70	☐	☐	US 5717943 A	19980210	71
71	☐	☐	US 5710935 A	19980120	66
72	☐	☐	US 5689799 A	19971118	38
73	☐	☐	US 5635978 A	19970603	32
74	☐	☐	US 5625836 A	19970429	67
75	☐	☐	US 5590345 A	19961231	65
76	☐	☐	US 5589892 A	19961231	97
77	☐	☐	US 5588152 A	19961224	67

	Title	Current OR	Current XRef
67	Human factored interface incorporating adaptive pattern recognition based controller apparatus	713/600	348/110; 348/27; 348/734; 712/240; 712/245
68	Image query system and method	345/835	345/838; 345/968; 382/209; 382/220; 382/305; 707/4; 707/6
69	Advanced parallel array processor computer package	712/10	709/238; 712/14; 712/20
70	Advanced parallel array processor (APAP)	712/20	712/14
71	Advanced parallel array processor (APAP)	712/20	711/149; 712/11; 712/15
72	Method and apparatus for routing confidential information	455/2.01	
73	Electronic television program guide channel system and method	725/42	348/569; 348/906; 725/40; 725/41; 725/43; 725/44
74	SIMD/MIMD processing memory element (PME)	709/214	711/147; 712/201
75	Advanced parallel array processor(APAP)	712/11	712/14; 712/15
76	Electronic television program guide schedule system and method with data feed access	725/43	345/721; 345/733; 348/564; 348/569; 348/906; 725/45; 725/54; 725/58; 725/60; 725/61
77	Advanced parallel processor including advanced support hardware	712/16	

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
67		Hoffberg, Steven M. et al.	☒	☐	☐	☐	☐	☐	☐
68		Barber, Ronald Jason et al.	☒	☐	☐	☐	☐	☐	☐
69		Dapp, Michael Charles et al.	☒	☐	☐	☐	☐	☐	☐
70		Barker, Thomas Norman et al.	☒	☐	☐	☐	☐	☐	☐
71		Barker, Thomas Norman et al.	☒	☐	☐	☐	☐	☐	☐
72		Dougherty, Brian P. et al.	☒	☐	☐	☐	☐	☐	
73		Alten, Jerry et al.	☒	☐	☐	☐	☐	☐	☐
74		Barker, Thomas N. et al.	☒	☐	☐	☐	☐	☐	☐
75		Barker, Thomas N. et al.	☒	☐	☐	☐	☐	☐	☐
76		Knee, Robert A. et al.	☒	☐	☐	☐	☐	☐	☐
77		Dapp, Michael C. et al.	☒	☐	☐	☐	☐	☐	☐

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77	US 5588152	☐

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78	☐	☐	US 5585866 A	19961217	80
79	☐	☐	US 5579471 A	19961126	26
80	☐	☐	US 5567164 A	19961022	19
81	☐	☐	US 5559707 A	19960924	61
82	☐	☐	US 5559548 A	19960924	36
83	☐	☐	US 5410634 A	19950425	15
84	☐	☐	US 5208745 A	19930504	26
85	☐	☐	US 4931950 A	19900605	25

	Title	Current OR	Current XRef
78	Electronic television program guide schedule system and method including virtual channels	725/43	348/570; 348/906; 725/100; 725/101; 725/104; 725/30; 725/61
79	Image query system and method	345/700	345/835; 382/209; 382/220; 382/305; 707/6
80	Method of facilitating learning using a learning complex	434/432	
81	Computer aided routing system	701/200	340/990; 340/995; 701/23; 701/82
82	System and method for generating an information display schedule for an electronic program guide	725/40	348/906; 725/104; 725/36; 725/42; 725/43; 725/48
83	Self-optimizing method and machine	706/62	
84	Multimedia interface and method for computer system	700/83	345/978; 706/10; 706/11; 706/45; 706/911; 707/500.1
85	Multimedia interface and method for computer system	706/11	345/978; 379/908; 381/110; 700/83; 706/45; 707/500.1

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
78		Miller, Larry et al.	☒	☐	☐	☐	☐	☐	☐
79		Barber, Ronald J. et al.	☒	☐	☐	☐	☐	☐	☐
80		Durkin, James C. et al.	☒	☐	☐	☐	☐	☐	☐
81		DeLorme, David M. et al.	☒	☐	☐	☐	☐	☐	☐
82		Davis, Bruce et al.	☒	☐	☐	☐	☐	☐	☐
83		Li, Chou H.	☒	☐	☐	☐	☐	☐	☐
84		Quentin, George H. et al.	☒	☐	☐	☐	☐	☐	☐
85		Isle, Brian A. et al.	☒	☐	☐	☐	☐	☐	☐

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85	US 4931950	☐

MIND AND ARTIFICIAL INTELLIGENCE

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In the history of philosophy and of scientific thinking there are known some theories of mind. Among these may be mentioned:

- *the monist theory,* for which the fundamental reality is mind;
- *the dualist theory,* for which mind and body are of a different nature;
- *the interconnectivity theory,* for which the mental activity of the brain is a consequence of the huge number of interconnections among neurones;
- *the identity theory,* for which "mind is the brain" or " brain is the mind", a theory based on a biological philosophy [1];
- *the data processing theory* (informatic theory), for which the mind is the software of the brain and for which there is no fundamental difference between natural intelligence (NI) and artificial intelligence (AI);
- *the theory of non-existence of the mind,* for which the mind is a system of semantic structures (or meaning structures [2]) through which a person is in contact with the physical and social worlds.

Some of these theories have many points in common and, of course other theories may be mentioned or may be advanced.

Perhaps the most important problem to be clarified, both for a theory of mind and for the artificial intelligence theory is the relation between natural and artificial intelligence.

Alan Newell, a well-known scientist and specialist in artificial intelligence, believing many years, together with Herbert Simon, that NI = AI, writes:

> "One of the world's deepest mysteries - the nature of mind - is at the centre of AI [...]. Its discovery which will no more be a simple act thant he discovery of the nature of life, or the origins of the universe, will be a major chapter in the scientific advance of mankind. There will be a coherent account of the nature of intelligence, knowledge, intention, desire etc., and how it is possible for the phenomena that cluster under these names to occur in our physical universe" [3].

AI practice cannot solve the mind problem. But it can help to acquire a new understanding of both mind and AI theory.

Concerning, for instance, the modelling of space and time in data-processing programs and in AI programs, Bernard Meltzer, an expert in expert systems, observes that these

programs

> "seem to model a ghost, ethereal world in which not only there is no space or time, but not even physical objects: a solipsistic world[...] [4]".

Something is lacking in AI to have all what we know about human mind, i.e.: **it has not** the feeling of continuity of the objects the man sees, continuity of itself, feeling of continuity of time, intuition, genuine creation and so on. We think that such phenomena are not purely structural, but have components that we call purely phenomenological.

Mind processes are without any doubt, informational processes. We may question only the nature of mental information, in what degree it is identical or similar to the structural information of computers and AI programs.

We may think that in a mind, information has not only structural but also yet unknown phenomenological components. And these phenomenological phenomena (related, in a way, to the phenomenology of Husserl) cannot manifest outside matter, but in a special form of matter, that we called *informatter*. It is not possible to present here all the ontological bases [5][6][7] of such an idea, but for the purpose of this paper it is sufficient to say that any biological body is formed of the usual structural substance and informatter, the latter offering to a mind all what AI has not: continuity and phenomenological senses of which every mind is aware.

If we take this theses (I) as an initial point, we may derive a lot of consequences, shortly presented as follows:

II. Mental information has both structural and phenomenological components.

III. The brain is both structural-physical (the usual body) and phenomenological-physical, that is the brain is physical and alive, that is biological.

IV. The brain is a substratum for structural-phenomenological informational processes.

V. The mind is the entire informational activity of the brain, structural and phenomenological.

VI. Mind is not the brain, but the brain contains the mind.

VII. The brain is therefore a physical-informational device.

AI has nothing phenomenological (in the sense explained above). Being intelligent, an AI system has a psychology but its psychology is not mental in itself. AI offers only an illusion of a mental psychology, although, we must recognise, sometimes, a very good illusion.

How to test by experiment the difference between AI and NI ?

A criterion might be the test of creativity, but this is delicate even for NI; otherwise, to ask where a piece of knowledge is placed inside the intelligent system (artificial or natural). An AI system will point to some locations of memory. A man cannot indicate such location. It may be objected that man has an associative memory and has not sensors for his own brain, but we think that it is not only this, because the brain cannot be reduced only to the network of neurons, also cannot be reduced to its molecules, especially those inside the neurones, which may have a role in the computational processes of the brain. If we take into account its informaterial component, this one not having a spatial character, the mental processes will never have a totally spatial localisation. Some philosophical systems of antiquity spoke, perhaps not without reason, about infinity of mind.

Never will a non-mental intelligence say like Anna de Noaille:

> "Je t'avais regardé. Le regard est un contact plus nete et dur que le mineral. C'est un chose qui ebranle deux esprits..."[8].

Never will a non-alive artificial intelligence transmit or receive something from mental to mental, as in the above example, a reciprocal mirroring of the eyes of two beings.

Some considerations concerning the human mind may be drawn from a *theory of a problem* [9] suggested by the Romanian philosopher Lucian Blaga.

Some other considerations concerning the human mind may be deduced from Kant's theory of intellect and reason, and in summary we may say that AI has not reason in the kantian sense, only a human may have this reason, or in the future an alive AI.

In fact, we think that a structural-phenomenological theory of mind is possible, which might explain the similarities and the differences between AI and NI.

We may say that the semantics of AI is only structural, and the semantics of NI is structural-phenomenological.

Ignoring phenomenological processes in mental thinking has far reaching consequences. The phenomenological processes may have a non-formal character, the structural processes, by definition, are formal, in the last instance are computational. If we conceive only a structural reality, this reality is then a computational process. The Universe, man and society would be computational processes.

If we recognise the phenomenological processes, the physical universe may still be a computational process, but not the man and not the society, although man and society have a great part of formal in them.

We are faced with two philosophical possibilities:

a) Either we recognise (like the science of today, especially physics and biology) only structural processes and then the entire reality is a computational process.

b) Or we recognise both structural and phenomenological processes as distinct and correlated, and then the reality is not entirely a computational process.

Michael Conrad, an emerging scientist in molecular computing, talking about the Turing-Church thesis on computability gives it the following interpretation:

"any system or process physically realisable must be effectively computable" [10].

By "effectively computable" one understands computable by a formal process with a succession of simple operations on strings of symbols, as it is the case, for instance, of a data-processing program. Conrad's extended thesis says that any realisable physical process is equivalent to a computation, even if is not effectively computable. Perhaps, at the molecular level, the brain succeeds to make computations that even if they are not of the effective type, they are still formal computations. Let us call *integrated computations* these noneffective computations. But taking place at the molecular level they are also structural and they cannot explain mind phenomena, although may be very powerful in computing and heuristics.

The first philosophical position (a) cannot explain mind phenomena. Today, neither physics nor information science can neglect mental phenomena, which are present in various forms perhaps in every biological body, under the form of structural-phenomenological processes. A mental process is essential in every living organism in order to have the phenomenological unity which is recognised, by biologists, above the structural unity of the body.

The mental is a fundamental phenomenon in the living matter and the recognition of this assertion is comnpatible, in our opinion, with the second (b) proposed philosophical position (which recognises a structural- phenomenological reality). Only the structural part of reality is computational.

Although the physical universe may be born by specific phenomenological-structural processes, the physical universe, if alone, is structural and remains and remains a computational process obeying the laws of physics.

The biological universe is not only structural, and in this second approximation even the physical universe is influenced by the mental behaviour of living organisms.

Living organisms, especially man, because of the great structural-phenomenological possibilities, have a huge informational disponibility. The human mind, being also phenomenological, is not determined completely by the laws of physics and biology.

We do not think that we might recognise *information* as a fundamental process in matter if we do not recognise phenomenological information. The structural information alone may be seen as a structural physical process. In such a case man would be determined by the laws of physics, society also.

We think that information may be taken into consideration, *for the Universe,* along with the four fundamental forces of physics. Concerning the profound matter from which the Universe emerged, the phenomenological information may remain the only fundamental phenomenon.

For man, information is added to the laws of physics to become man, and information is added to the laws of physics to make possible the society. And if information exists under structural form due to its initial phenomenological basis, then society could not be deeply explained without the fundamental existence of phenomenological information.

Therefore, contrary to the opinion that the entire world is working like a computer, an opinion accepted even by some philosopher like A.Sloman [11], we think that the world is working like a computer but not quite. We believe that philosophy and science too, may become structural-phenomenological one day.

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** See also on the author's Web-site:
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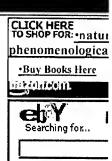10. **Phenomenological description of the electronic structure**
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husserl's positive argument and phenomenology
Saleem Waraich

Phenomena are mental events. They are limited to consciousness, and thus phenomenology is, though not limited to, the science of consciousness. A precise formulation of the positive argument, along with penetration into the meanings of key concepts, will reward an exact definition of phenomenology. Among other things, it will be found that Husserl's account of phenomenology is not in accord with the standard textbook gloss.

Nature is considered a unity of spatio-temporal being subject to universal, precise, generalizing laws. Naturalism is the science that takes advantage of the fact that nature is a unity. It makes use of the fact that nature is explainable, that laws govern its actions, and attempts to discover and formulate those laws. One way of stating the positive argument is to call naturalism naïve. More specifically, it is naïve is regard to its point of departure. When it sets off to discover the laws by which an object is governed, it assumes the object is a part of nature. It thinks the object is a part of the unity of spatio-temporal being and thus subject to universal, precise, generalizing laws. Husserl wants to say that not everything is best considered as nature. The object domain of naturalism is limited. It's limited to objects of nature. Consciousness is not nature. Experience as consciousness does not give or contact an object. Experiences in consciousness do not mutually legitimate and correct each other the way objects of nature do. Consciousness is special. Naturalism has no business studying consciousness. Phenomenology does. In summary: 1) Nature is a unity of spatio-temporal being subject to exact, universal laws. 2) Naturalism should naturalize objects of nature only. 3) Consciousness is not an object of nature and 4) therefore natural science cannot study consciousness.

Naturalism however, has been studying consciousness. It has been studying the "natural" aspects of consciousness through psychology. This leads us to a consequence of the positive argument which, for us, clarifies and penetrates the meanings of natural and phenomenological investigations. In doing so it will be made known that phenomena are mental events, that is, are events in consciousness. Objects which admit of being part of nature have unquestionable data. A backpack weighs a certain amount, has a certain texture, and can hold a certain load. Similarly, consciousness can be thought of as containing certain unquestionable data. The aim of natural science would then be to know this unquestionable data in an objectively valid, scientific manner. Perception could thus be thought of as neuronal events in which transmitters stimulate receptors. The corresponding electrical and chemical data are unquestionable. Remember, natural science obtains this data from objects which are themselves physical, or a part of the spatio-temporal unity of nature. This is crucial. Naturalism concerns itself with dependencies that are physical. Phenomenology does not! A phenomena is not in any way physical. As Husserl says, "A phenomena is no substantial unity; it has no real properties, it knows no real parts, no real changes, and no causality." (106) Phenomena are precisely those things which are not physical and do not have unquestionable data. It now becomes apparent why phenomena are not meant to be naturalized. They necessarily have nothing to do with the physical. They're mental. With regard to the characterization of a phenomenological investigation there are definitive consequences. Their data is questionable. There are no instruments with which one can measure and interpret their nature. They are events in consciousness and our consciousness is the only tool we have to get at their nature. While natural science aims to know unquestionable data in an objectively valid, scientific manner, phenomenology aims to know questionable data. Phenomenology studies the questionable data of events that occur in the realm of consciousness. If phenomenology studies objects, it does so only after they appear in consciousness. An object after it has appeared in consciousness is what we will can a

phenomenon and we do so because it must lack relation to the physical. A phenomenological investigation concerns itself with the non-physical, and the questionable. Furthermore, the only tool, or instrument with which the non-physical and questionable can be analized is consciousness.

I want to say this poses a problem. I will formulate the problem, then attempt to solve it. In solving it I will come to a definition of phenomenology in contrast to the standard textbook gloss. If phenomenology investigates objects whose relations to the physical are ignored it stands on shaky ground. The physical is real. The physical is tangible and safe. It provides us with a definitive way to characterize and understand objects. To reject an object's relation to the physical seems to be asking for trouble. To make it worse, the objects aren't even treated as objects. They're considered as mental events! That is to say they are considered as representations of objects in the theater of our minds. A phenomenologist investigates questionable properties in the highly subjective and personal realm of consciousness! This is exactly the picture laid by the standard textbook gloss. All phenomenology can do is describe feeble, fleeting, and personal events in consciousness. It seems impossible to say such a theory would lay solid foundations for philosophy as rigorous science. But yet Husserl takes note of this seemingly weak conception of phenomenology: one would "have before its eyes only being as the correlate of consciousness." (89) Foundation and solidity would be lost in spheres of representation. Here we make a claim. If phenomenology is to hold ground as a legitimate science phenomena must not be viewed as finding its origin in consciousness. Phenomena appear in consciousness. They are separate from consciousness. Husserl clarifies further just what an phenomenological investigation entails. We already know it will not be seeking objectively valid data. It will have nothing to do with the physical and must in some way grasp the essence of an unusual object; an object that "has no real parts", "no substantial unity" and that appears in consciousness: "the investigation must be directed towards a scientific essential knowledge of consciousness, towards that which consciousness itself is,... toward what consciousness means, as well as toward the different ways... it intends the objective." (89)

How are phenomena to be understood? By knowledge of the consciousness in which they appear. Phenomenology concerns itself with knowledge of what consciousness "is", as opposed to how it seems to us to be. It strives for essential knowledge of consciousness. Consciousness is also thought to hold meaning. In finding what consciousness "means" it gets at the root of experience and attempts to make a claim as to its significance. Phenomenology then finds knowledge of what consciousness means, as opposed to what it can be thought to say nothing about. In finding how it "intends the objective" it makes claims as to whether or not consciousness faithfully paints our understanding of unquestionable data, or if it does so with a great deal of uncertainty. Phenomenology does not intend the subjective. It does not merely investigate how my consciousness is different from yours. It thus finds the laws by which experience as consciousness is separate from mere opinions. Phenomenology then does not lay foundations for philosophy by focusing on all the variables involved with consciousness. Only after and during the acquisition of this knowledge can knowledge of the phenomenon itself be acquired. The phenomena and the consciousness in which they appear are the object domain of phenomenology. This both legitimates and substantiates phenomenology. It legitimates it in so far as phenomenology is not thought to deal with subjective objects that are seen through the subjective haze of consciousness, but rather to deal with non-physical characteristics of an object appearing, yet separate from, an analyzable consciousness. It substantiates phenomenology in so far that it can be thought of as having a purpose. It purposes to know what consciousness is and means.

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	Retrieval Classif	Inventor	S	C	P	2	3	4	5
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2		White, Chris M. et al.	☐	☐	☐	☐	☐	☐	☐
3		Burfeind, Craig et al.	☐	☐	☐	☐	☐	☐	☐

	Image Doc. Displayed	PT
1	US 20020069020	☐
2	US 6392664	☐
3	US 6360172	☐

	U	1	Document ID	Issue Date	Pages
1	☐	☒	US 20020069020 A1	20020606	28
2	☐	☐	US 20010003846 A1	20010614	58
3	☐	☒	US 6360172 B1	20020319	29
4	☐	☐	US 6169954 B1	20010102	32
5	☐	☐	US 6105060 A	20000815	18
6	☐	☐	US 5991735 A	19991123	30
7	☐	☐	US 5950543 A	19990914	40
8	☐	☐	US 5875108 A	19990223	110
9	☐	☐	US 5848396 A	19981208	31
10	☐	☐	US 5774357 A	19980630	97

	Title	Current OR	Current XRef
1	Generation and distribution of personalized multimedia natural phenomenological information	702/2	
2	Encapsulated, streaming media automation and distribution system	725/47	725/87
3	Generation and distribution of personalized multimedia natural-phenomenological information	702/2	455/414
4	Intelligent public transit system using dual-mode vehicles	701/117	701/23
5	System for providing global portable internet access using low earth orbit satellite and satellite direct radio broadcast system	709/219	725/63
6	Computer program apparatus for determining behavioral profile of a computer user	705/10	705/1
7	Evacuated tube transport	104/138.1	104/130.05; 104/27; 104/28
8	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	700/17	382/181; 382/190; 700/83
9	Method and apparatus for determining behavioral profile of a computer user	705/10	705/1; 725/14; 725/46
10	Human factored interface incorporating adaptive pattern recognition based controller apparatus	713/600	348/110; 348/27; 348/734; 712/240; 712/245

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1		Burfeind, Craig et al.	☒	☐	☐	☐	☐	☐	☐
2		Rowe, Lynn T. et al.	☒	☐	☐	☐	☐	☐	☐
3		Burfeind, Craig et al.	☒	☐	☐	☐	☐	☐	☐
4		McCrary, Homer T.	☒	☐	☐	☐	☐	☐	☐
5		Rothblatt, Martine A.	☒	☐	☐	☐	☐	☐	☐
6		Gerace, Thomas A.	☒	☐	☐	☐	☐	☐	☐
7		Oster, Daryl	☒	☐	☐	☐	☐	☐	☐
8		Hoffberg, Steven M. et al.	☒	☐	☐	☐	☐	☐	☐
9		Gerace, Thomas A.	☒	☐	☐	☐	☐	☐	☐
10		Hoffberg, Steven M. et al.	☒	☐	☐	☐	☐	☐	☐

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6	US 5991735	☐
7	US 5950543	☐
8	US 5875108	☐
9	US 5848396	☐
10	US 5774357	☐

L Number	Hits	Search Text	DB	Time stamp
2	2	(phenomenologic$3) with (grid$4 and (metrological or weather))	USPAT; US-PGPUB	2002/06/10 17:36
3	2	(phenomenologic$3) and (grid$4 and (metrological or weather))	USPAT; US-PGPUB	2002/06/10 17:40
1	4	weather and database and multimedia and gridded and database and multimedia	USPAT; US-PGPUB	2002/06/10 17:46
4	2	(phenomenologic$3) and (grid$4 and (metrological or weather)) and server	USPAT; US-PGPUB	2002/06/10 17:41
5	56	weather and database and multimedia and grid$4 and database and multimedia	USPAT; US-PGPUB	2002/06/10 17:42
8	3	Meteorological and weather and data$4 and multimedia and grid$3	USPAT; US-PGPUB	2002/06/10 17:46

L Number	Hits	Search Text	DB	Time stamp
2	2	(phenomenologic$3) with (grid$4 and (metrological or weather))	USPAT; US-PGPUB	2002/06/10 17:36
3	2	(phenomenologic$3) and (grid$4 and (metrological or weather))	USPAT; US-PGPUB	2002/06/10 17:40
1	4	weather and database and multimedia and gridded and database and multimedia	USPAT; US-PGPUB	2002/06/10 17:37
4	2	(phenomenologic$3) and (grid$4 and (metrological or weather)) and server	USPAT; US-PGPUB	2002/06/10 17:41

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1	☐	☒	US 20020069020 A1	20020606	28
2	☐	☒	US 6360172 B1	20020319	29

	Title	Current OR	Current XRef
1	Generation and distribution of personalized multimedia natural phenomenological information	702/2	
2	Generation and distribution of personalized multimedia natural-phenomenological information	702/2	455/414

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2		Burfeind, Craig et al.	☒	☐	☐	☐	☐	☐	☐

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	U	1	Document ID	Issue Date	Pages
1	☐	☒	US 20020069020 A1	20020606	28
2	☐	☒	US 6392664 B1	20020521	12
3	☒	☒	US 6360172 B1	20020319	29
4	☒	☒	US 6307573 B1	20011023	41

	Title	Current OR	Current XRef
1	Generation and distribution of personalized multimedia natural phenomenological information	702/2	
2	Method and system for presenting television programming and interactive entertainment	345/717	345/719; 345/733; 345/758; 348/552; 725/112; 725/113; 725/136; 725/61
3	Generation and distribution of personalized multimedia natural-phenomenological information	702/2	455/414
4	Graphic-information flow method and system for visually analyzing patterns and relationships	345/764	345/440; 345/803; 345/804; 345/854; 705/26; 707/512

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1		Burfeind, Craig et al.	☒	☐	☐	☐	☐	☐	☐
2		White, Chris M. et al.	☒	☐	☐	☐	☐	☐	☐
3		Burfeind, Craig et al.	☐	☐	☐	☐	☐	☐	☐
4		Barros, Barbara L.	☐	☐	☐	☐	☐	☐	☐

	Image Doc. Displayed	PT
1	US 20020069020	☐
2	US 6392664	☐
3	US 6360172	☐
4	US 6307573	☐

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1	☐	☒	US 20020069020 A1	20020606	28
2	☐	☐	US 20010003846 A1	20010614	58
3	☐	☒	US 6360172 B1	20020319	29

	Title	Current OR	Current XRef
1	Generation and distribution of personalized multimedia natural phenomenological information	702/2	
2	Encapsulated, streaming media automation and distribution system	725/47	725/87
3	Generation and distribution of personalized multimedia natural-phenomenological information	702/2	455/414

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1		Burfeind, Craig et al.	☒	☐	☐	☐	☐	☐	☐
2		Rowe, Lynn T. et al.	☒	☐	☐	☐	☐	☐	☐
3		Burfeind, Craig et al.	☒	☐	☐	☐	☐	☐	☐

	Image Doc. Displayed	PT
1	US 20020069020	☐
2	US 20010003846	☐
3	US 6360172	☐

	U	1	Document ID	Issue Date	Pages
1	☐	☐	US 20020069220 A1	20020606	55
2	☐	☒	US 20020069020 A1	20020606	28
3	☐	☐	US 20020065585 A1	20020530	35
4	☐	☐	US 20020060750 A1	20020523	38
5	☐	☐	US 20020059148 A1	20020516	20
6	☐	☐	US 20020056083 A1	20020509	26
7	☐	☐	US 20020042747 A1	20020411	23
8	☐	☐	US 20020035726 A1	20020321	14
9	☐	☐	US 20020035497 A1	20020321	9
10	☐	☐	US 20020026496 A1	20020228	24
11	☐	☐	US 20020018124 A1	20020214	16
12	☐	☐	US 20010029410 A1	20011011	35
13	☐	☐	US 20010021887 A1	20010913	28
14	☐	☐	US 20010020202 A1	20010906	28
15	☐	☐	US 20010003846 A1	20010614	58
16	☒	☒	US 6392664 B1	20020521	12

	Title	Current OR	Current XRef
1	REMOTE DATA ACCESS AND MANAGEMENT SYSTEM UTILIZING HANDWRITING INPUT	707/503	
2	Generation and distribution of personalized multimedia natural phenomenological information	702/2	
3	Multimedia information and control system for automobiles	701/1	
4	Single-button remote access to a synthetic channel page of specialized content	348/569	725/38; 725/51
5	Telecommunications initiated data fulfillment system	705/77	
6	System and method for picture-in-browser scaling	725/1	
7	Automatic prompting for printer ink refill	705/26	705/14; 705/27
8	Information descriptor and extended information descriptor data structures for digital television signals	725/39	
9	System and method for utility enterprise management	705/7	
10	ELECTRONIC-MAIL REMINDER FOR AN INTERNET TELEVISION PROGRAM GUIDE	709/218	
11	Methods and systems for networked camera control	348/211	348/14.03
12	Multimedia information and control system for automobiles	701/1	
13	Multimedia information and control system for automobiles	701/1	701/36
14	Multimedia information and control system for automobiles	701/1	701/211
15	Encapsulated, streaming media automation and distribution system	725/47	725/87
16	Method and system for presenting television programming and interactive entertainment	345/717	345/719; 345/733; 345/758; 348/552; 725/112; 725/113; 725/136; 725/61

	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1		Tran, Bao Q.	☒	☐	☐	☐	☐	☐	☐
2		Burfeind, Craig et al.	☒	☐	☐	☐	☐	☐	☐
3		Obradovich, Michael L.	☒	☐	☐	☐	☐	☐	☐
4		Istvan, Anthony F. et al.	☒	☐	☐	☐	☐	☐	☐
5		Rosenhaft, Matthew et al.	☒	☐	☐	☐	☐	☐	☐
6		Istvan, Anthony F.	☒	☐	☐	☐	☐	☐	☐
7		Istvan, Anthony F.	☒	☐	☐	☐	☐	☐	☐
8		Corl, Mark T.	☒	☐	☐	☐	☐	☐	☐
9		Mazereeuw, Jeff et al.	☒	☐	☐	☐	☐	☐	☐
10		BOYER, FRANKLIN E. et al.	☒	☐	☐	☐	☐	☐	☐
11		Mottur, Peter A. et al.	☒	☐	☐	☐	☐	☐	☐
12		Obradovich, Michael L.	☒	☐	☐	☐	☐	☐	☐
13		Obradovich, Michael L. et al.	☒	☐	☐	☐	☐	☐	☐
14		Obradovich, Michael L. et al.	☒	☐	☐	☐	☐	☐	☐
15		Rowe, Lynn T. et al.	☒	☐	☐	☐	☐	☐	☐
16		White, Chris M. et al.	☐	☐	☐	☐	☐	☐	☐